

International Monitoring for Soybean Rust in the Caribbean Basin, Central and South America

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Foreign Disease-Weed Science Research

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USDA CSREES NPDN in Puerto Rico:

Consuelo Estevez de Jensen
SPDN Diagnostician for PR
University of Puerto Rico
Estacion Experimental Agricola
Juana Diaz, Puerto Rico

- Sentinel soybean plots planted monthly using seed from Pioneer
- Annual cost estimate \$5,910
- Samples submitted via NPDN
- Currently establishing molecular and digital diagnostic capabilities

Pioneer Hi-Bred Diagnostic Network

Puerto Rico:

Isabel Marrero

Research Associate

Pioneer Diagnostic Network

- Nursery plots monitored for SBR
- Samples and digital images sent to NPDN via Consuelo de Jensen

Mexico- (need contact info)

- Nursery plots monitored for SBR
- Samples and digital images submitted into Pioneer Diagnostic network

USDA ARS SBR Surveying in the Caribbean Basin

Dr. José R. Hernández
Research Mycologist
USDA ARS Systematic Botany and Mycology Lab
Beltsville, MD

Surveyed in 2003/2004:

- Honduras, Panama, Costa Rica, Mexico, Puerto Rico

2005 Surveys:

- Mexico- Yucatan soybean production areas
- Dominican Republic
- Cuba ?
- Venezuela ?
- Colombia ?

Proposed Caribbean Basin Monitoring Network

- **Project Proposal:** “Monitoring the movement of soybean rust from the current South American distribution through Central America, the Caribbean and into the United States”

Objectives:

- Use existing network of dry bean rust pathologists
- Plant sentinel plots
- Monitor using real-time PCR

Proposed Caribbean Basin Monitoring Network (ctd)

U.S. Cooperators:

PI: Dr. Monte R. Miles, USDA-ARS, University of Illinois
Dr. James Steadman, University of Nebraska
Dr. Glen Hartman, USDA-ARS, University of Illinois
Dr. Reid Frederick, USDA-ARS, Ft. Detrick, MD
Dr Talo Pastor-Corrales, USDA-ARS, Beltsville, MD

Caribbean Basin Cooperators:

Dr. Carlos Araya
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Heredia, Costa Rica

Dr. Graciela Godoy-Lutz
IDIAF
Arroyo Loro Experiment
San Juan, Dominican Republic

Dr. Juan Carlos Rosas
Escuela Agrícola Panamericana-Zamorano
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